



05-25-05

\$ 2813

PTO/SB/21 (03-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number 09/834,660

Filing Date 4/12/2001

First Named Inventor Luan C. Tran

Art Unit 2813

Examiner Name L. Schillinger

Attorney Docket Number MI22-1637

ENCLOSURES (Check all that apply)

| | | |
|--|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance Communication to a Technology Center (TC) |
| <input checked="" type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input checked="" type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Terminal Disclaimer | <input checked="" type="checkbox"/> Other Enclosure(s) (please Identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Request for Refund | Return Receipt Postcard; Interview Summary; A \$380.00 Check; |
| <input checked="" type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | Remarks | |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application | Additional Enclosures: Form PTO-1449 Cited Reference | |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | | |

EV550714975

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENTFirm or Individual James D. Shaurette, Reg. No. 39,833
Wells St. John, P.S.

Signature

Date

5/23/05

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as express mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 5-24-05

Typed or printed Jim Tidrick

Signature

Date

5-24-05

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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| | | | |
|---|------|--------------------------|----------------|
| Effective on 12/08/2004. Fee is pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). | | Complete if Known | |
| FEE TRANSMITTAL For FY 2005 | | Application Number | 09/834,660 |
| | | Filing Date | April 12, 2001 |
| | | First Named Inventor | Luan C. Tran |
| | | Examiner Name | L. Schillinger |
| | | Art Unit | 2813 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27 | | Attorney Docket No. | MI22-1637 |
| TOTAL AMOUNT OF PAYMENT | (\$) | 380.00 | |

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: 23-0925 Deposit Account Name: Wells St. John, P.S.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee

☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fees Paid (\$) |
|------------------|-----------------------|----------|-----------------------|----------|-----------------------|----------|----------------|
| | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | Small Entity Fee (\$) | Fee (\$) | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | |

2. EXCESS CLAIM FEES

Fee Description

| | Small Entity Fee (\$) | Fee (\$) |
|--|-----------------------|----------|
| Each claim over 20 (including Reissues) | 50 | 25 |
| Each independent claim over 3 (including Reissues) | 200 | 100 |
| Multiple dependent claims | 360 | 180 |

Total Claims 54 - 20 or HP = 4 x 50.00 = 200.00

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims 3 or HP = 3 x 100.00 = 300.00

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|------------|---------------|
| <u>54</u> | <u>4</u> | <u>1</u> | <u>125</u> | <u>125</u> |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Supplemental Information Disclosure Statement \$180.00

| | | |
|---------------------|--------------------|--|
| SUBMITTED BY | | |
| Signature | | Registration No. 39,833 (Attorney/Agent) |
| Name (Print/Type) | James D. Shaurette | Telephone 509-624-4276 |
| | | Date 5/23/05 |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No.09/834,660
Filing DateApril 12, 2001
Inventor..... Luan C. Tran
Assignee..... Micron Technology, Inc.
Group Art Unit.....2813
Examiner L. Schillinger
Attorney's Docket No.MI22-1637
Customer No.021567
Title:Semiconductor Processing Methods

INTERVIEW SUMMARY

To: Mail Stop Fee Amendment
Assistant Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

EV550714975

From: James D. Shaurette
Tel. 509-624-4276; Fax 509-838-3424
Wells St. John P.S.
601 W. First Avenue, Suite 1300
Spokane, WA 99201-3817

Sir:

In response to the Interview Summary mailed by the Office on April 28, 2005, the undersigned additionally comments as follows. In particular, the undersigned believes some of Applicant's points were not accurately reflected in the Interview Summary mailed by the Office. The undersigned does not recall making a statement to the effect that Fig. 4 of Liaw does not disclose any implanting and the undersigned submits such is contrary to points made by the undersigned during the interview and the response mailed April 28, 2005. In particular, the undersigned submitted that the

teachings of Liaw in Fig. 4 and the table of col. 4 only show that for *decreasing channel widths, the only decreasing threshold voltages correspond to embodiments of Liaw where there is no implanting of Boron* (i.e., the embodiments represented by the triangles and squares which clearly state "w/o imp"). To the contrary, the stars and circles of Fig. 4 (disclosed as with the Boron implant by "w/i imp") show *increasing voltage thresholds with decreasing channel widths* contrary to the claimed subject matter. The undersigned stated that the square and circle configurations of Fig. 4 can not be considered to disclose the limitations of claim 23 (or claim 24) which recites a channel implant where the square and circle arrangements of Liaw clearly pertain to no Boron implant (the same implant as identified by the Office on page 3 of the Action as allegedly teaching the implant of claim 23) and no other implant is identified by the Office. In sum, the only teachings showing decreasing threshold voltages with decreasing channel widths clearly state that no Boron implant is provided which can not be interpreted to disclose the limitations of claim 23 (or claim 24) reciting a channel implant and illustrating the faulty nature of any rejection of claims 23-24 over Liaw.

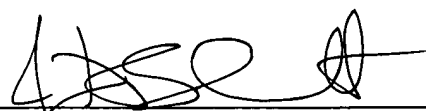
Also, the undersigned does not recall making a statement to the effect that Liaw could not anticipate claim 24 which recites a doping step as alleged by the Office in the Interview Summary mailed April 28, 2005 inasmuch as claim 24 recites channel implants as opposed to doping.

Applicant again requests allowance of the present application for at least these reasons and the reasons presented in the Office Action response and interview summary filed April 28, 2005.

The Examiner is requested to phone the undersigned if the Examiner believes such would facilitate prosecution of the present application. The undersigned is available for telephone consultation at any time during normal business hours (Pacific Time Zone).

Respectfully submitted,

5/23/05
Date


James D. Shaurette
Reg. No. 39,833